

Application No. 10/052,770

312 Amendment dated March 3, 2004

Reply to Notice of Allowance dated December 9, 2003

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (CURRENTLY AMENDED) Seed of corn inbred line designated KW7648, representative seed of said line having been deposited under ATCC Accession No. PTA-5800.
2. (PREVIOUSLY PRESENTED) A corn plant, or a part thereof, produced by growing the seed of claim 1.
3. (ORIGINAL) Pollen of the plant of claim 2.
4. (ORIGINAL) An ovule of the plant of claim 2.
5. (PREVIOUSLY PRESENTED) The corn plant of claim 2, wherein said plant is detasseled.
6. (PREVIOUSLY PRESENTED) A corn plant, or a part thereof, having all of the physiological and morphological characteristics of the corn plant of claim 2.
7. (PREVIOUSLY PRESENTED) A tissue culture of regenerable cells prepared from the corn plant of claim 2.
8. (PREVIOUSLY PRESENTED) The tissue culture according to claim 7, wherein the cells or the protoplasts of said cells are produced from a tissue selected from the group consisting of leaves, pollen, embryos, roots, root tips, anthers, silks, flowers, kernels, ears, cobs, husks, and stalks.
9. (CURRENTLY AMENDED) A corn plant regenerated from the tissue culture of claim 7, wherein the regenerated plant has all the morphological and physiological characteristics of inbred plant KW7648, wherein a sample of seed of said inbred corn plant has been deposited under ATCC Accession No. PTA-5800.
10. (PREVIOUSLY PRESENTED) A corn plant with all of the physiological and morphological characteristics of corn inbred KW7648, wherein said corn plant is produced by the tissue culture of claim 8.

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11. (PREVIOUSLY PRESENTED) A method for producing an F1 hybrid corn seed comprising crossing a first inbred parent corn plant with a second inbred parent corn plant and harvesting the resultant hybrid corn seed, wherein said first inbred parent corn plant or said second inbred parent corn plant is the corn plant of claim 2.

12 - 35. (CANCELLED)

36. (PREVIOUSLY PRESENTED) A method of producing a transgenic corn plant comprising transforming the corn plant of claim 2 with a transgene that confers a characteristic selected from the group consisting of: herbicide resistance, insect resistance, resistance to bacterial disease, resistance to fungal disease, resistance to viral disease, and male sterility.

37. (PREVIOUSLY PRESENTED) A transgenic corn plant produced by the method of claim 36.

38. (PREVIOUSLY PRESENTED) A method of producing an herbicide resistant corn plant comprising transforming the corn plant of claim 2 with a transgene that confers herbicide resistance.

39. (PREVIOUSLY PRESENTED) An herbicide resistant corn plant produced by the method of claim 38.

40. (PREVIOUSLY PRESENTED) A method of producing an insect resistant corn plant comprising transforming the corn plant of claim 2 with a transgene that confers insect resistance.

41. (PREVIOUSLY PRESENTED) An insect resistant corn plant produced by the method of claim 40.

42. (PREVIOUSLY PRESENTED) A method of producing a disease resistant corn plant comprising transforming the corn plant of claim 2 with a transgene that confers disease resistance.

43. (PREVIOUSLY PRESENTED) A disease resistant corn plant produced by the method of claim 42.

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44. (PREVIOUSLY PRESENTED) A method of producing a corn plant with decreased phytate content comprising transforming the corn plant of claim 2 with a transgene encoding phytase.
45. (PREVIOUSLY PRESENTED) A corn plant with decreased phytate content, produced by the method of claim 44.
46. (PREVIOUSLY PRESENTED) A method of producing a corn plant with modified fatty acid or carbohydrate metabolism comprising transforming the corn plant of claim 2 with one or more transgenes encoding a protein selected from the group consisting of stearyl-ACP desaturase, fructosyltransferase, levansucrase, alpha-amylase, invertase and starch branching enzyme.
47. (PREVIOUSLY PRESENTED) A corn plant produced by the method of claim 46.
48. (CURRENTLY AMENDED) A method of introducing a desired trait into corn inbred line KW7648 comprising:
 - a) crossing KW7648 plants grown from seed deposited under ATCC Accession No. PTA-5800, with plants of another corn line that comprise a desired trait to produce F1 progeny plants, wherein the desired trait is selected from male sterility, herbicide resistance, insect resistance, and resistance to bacterial, fungal or viral disease;
 - b) selecting F1 progeny plants that have the desired trait to produce selected F1 progeny plants;
 - c) crossing the selected progeny plants with KW7648 plants to produce backcross progeny plants;
 - d) selecting for backcross progeny plants that have the desired trait and physiological and morphological characteristics of corn inbred line KW7648 to produce selected backcross progeny plants; and
 - e) repeating steps (c) and (d) three or more times in succession to produce selected fourth or higher backcross progeny plants that comprise the desired trait and all of the physiological and morphological characteristics of corn inbred line KW7648

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listed in Table 1 as determined at the 5% significance level when grown in the same environmental conditions.

49. (PREVIOUSLY PRESENTED) A plant produced by the method of claim 48, wherein the plant has the desired trait and all of the physiological and morphological characteristics of corn inbred line KW7648 listed in Table 1 as determined at the 5% significance level when grown in the same environmental conditions.